



LAN Control Utility User Manual (for FL7000U)

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Preparation/SetUp

Preparation before using the network function

This projector is equipped with the network function to control and monitor the projector's operations using a Web browser and to send e-mail notification.

Before using the network function, perform the following three preparation steps.

- (1) Setup of the application software "Projector-Control Device Installer"
- (2) Setting of the IP address of the projector^{*1}
- (3) Setting of password, display language, LAN control, and PJLink™ certification using telnet.

^{*1} When setting IP addresses for multiple projectors collectively or when setting an IP address for a ceiling-mounted projector after installation, check and take a note of combination of the projectors and the hardware addresses (MAC addresses) in advance. To check the hardware addresses (MAC addresses), perform step 2 on the page 5.

[Major functions]

Setting of the projector's IP address

Setting of password, display language, and LAN control

PJLink™ certification setting (Telnet function)

Startup of the controlling / supervising tool (ProjectorView) using the Web browser

[System requirements]

Supported OS	: Windows® 2000, Windows® XP (Microsoft® .NET Framework 1.1 ^{*2} should be installed.)
CPU	: Pentium II 233 MHz or higher
Memory	: 128 MB or more
Free HDD space	: 32 MB or more
Web browser	: Internet Explorer Ver. 6.0 (Java Plug-in ^{*3} should be installed and JavaScript should be enabled.)

^{*2} How to install Microsoft® .NET Framework Version 1.1

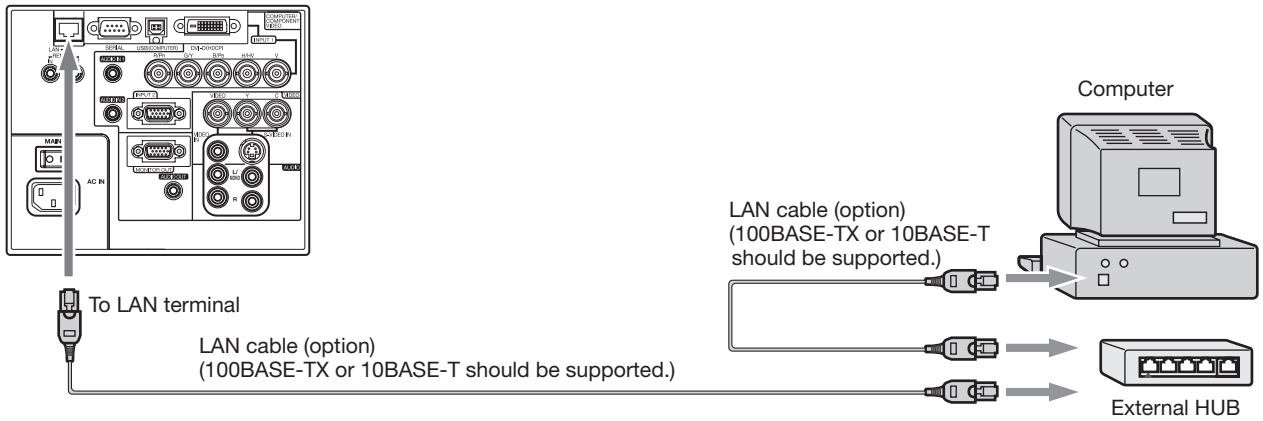
- (1) Download .NET Framework Version 1.1 (file named "dotnetfx.exe") from the download center on the Microsoft® Web site (<http://www.microsoft.com/downloads/>).
(When the file is unavailable from the above-mentioned URL, search for .NET Framework using Windows Update and access the download site found.)
- (2) Execute the downloaded file named dotnetfx.exe.

^{*3} How to install Java Plug-in

- (1) Download J2SE v1.4.2 JRE from the JAVA download center on the Sun Microsystems Web site (<http://java.sun.com/j2se/1.4.2/download.html>).
(When the file is unavailable from the above-mentioned URL, search for "J2SE download" using a search engine and access the download site found.)
- (2) Execute the downloaded file.
- (3) After the completion of the installation, select [Start] - [Control Panel] - [Java Plug-in] and disable the cache.

- Microsoft or Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Pentium is trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.
- The trademark of PJLink is trademark applied for registration or registered trademark in Japan, the United States, and other countries and areas.
- Other brand or product names are trademarks or registered trademarks of their respective holders.


Connection



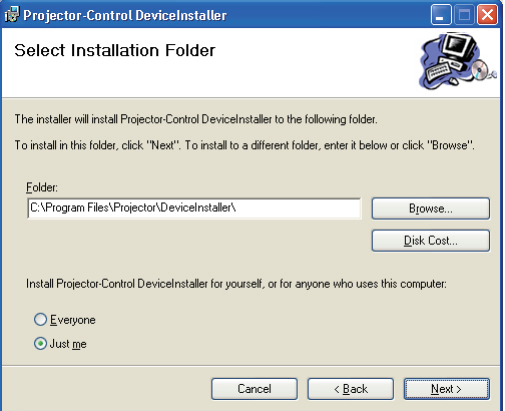
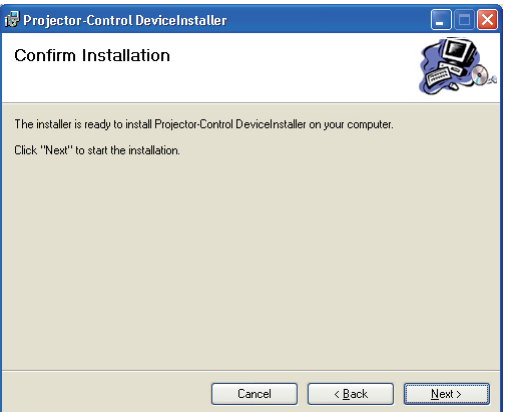
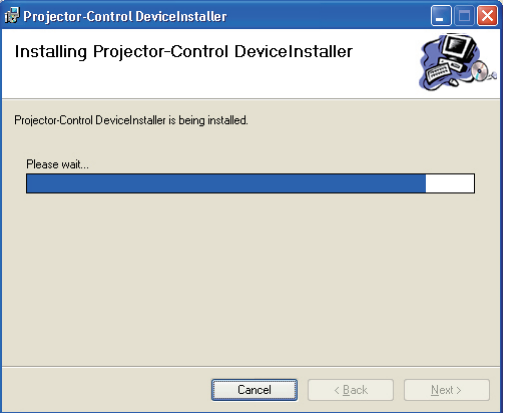
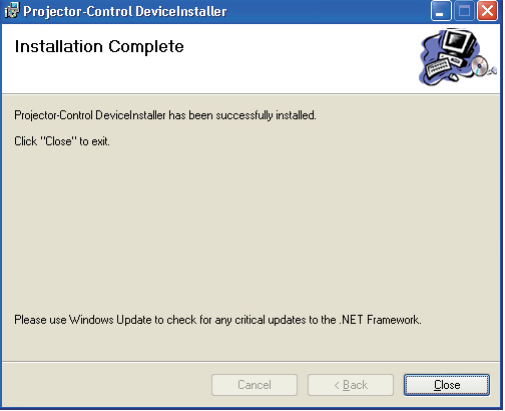
- Use a straight-through category-5 cable for LAN connection.
- Don't touch the metal parts of the LAN connector and LAN cable because static electricity may be discharged from your body, causing damage to the projector.

Installation

Before starting installation, be sure to read "ReadMe.txt" contained in the CD-ROM.

1	Copy three files (DI_4.1.3.3.msi, Setup.Exe, and Setup.Ini) contained in the Tools folder of CD-ROM to the hard disk of your personal computer.
2	Double-click the file named Setup.Exe.
3	When the following window appears, click Next. 

Preparation/SetUp (continued)

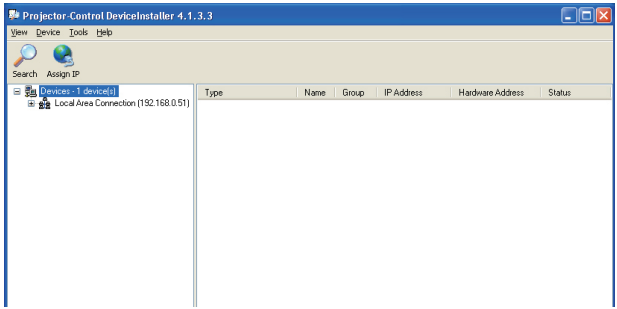
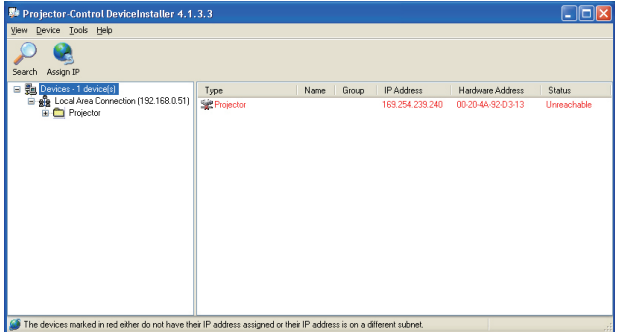
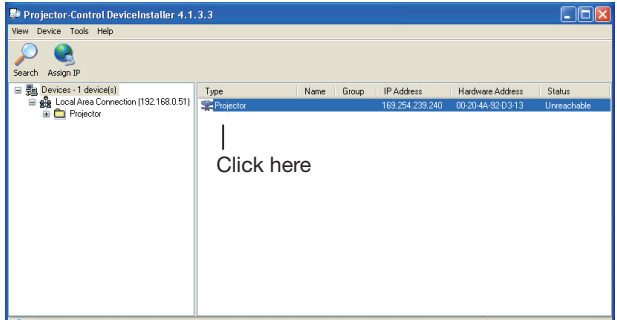
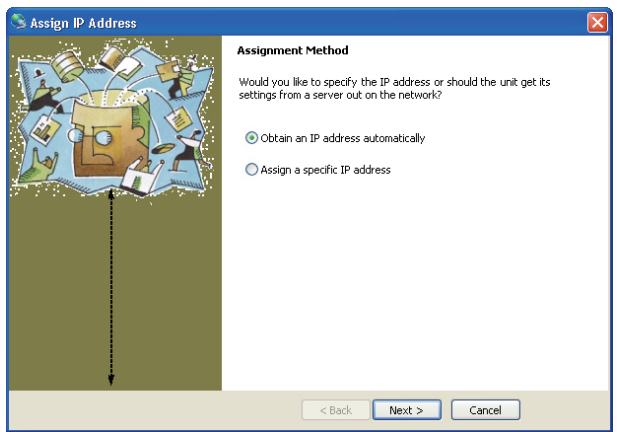
4	Select a folder to install the program, and click Next.	
5	Click Next.	
6	Installation starts. <ul style="list-style-type: none">• The progress of the installation process is displayed as shown on the right.	
7	When the installation process is completed, click Close.	

How to remove Projector-Control Device Installer

Select [Start] - [Control Panel] - [Add or Remove Programs] - [Projector-Control Device Installer] and click [Remove] (in the case of Windows® XP).

Setting the IP address of the projector

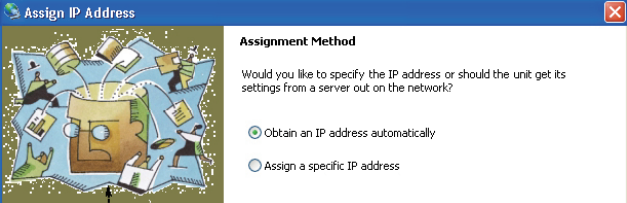
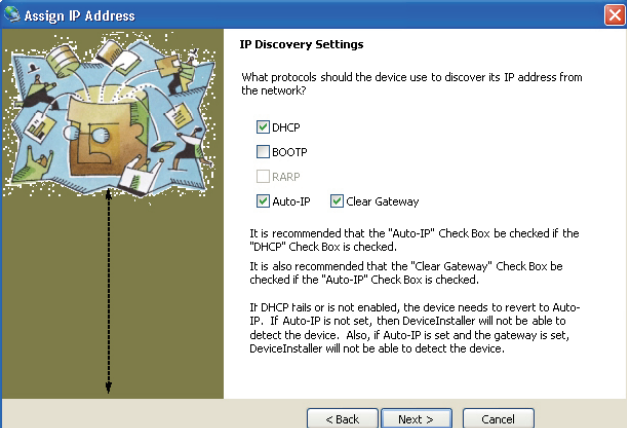
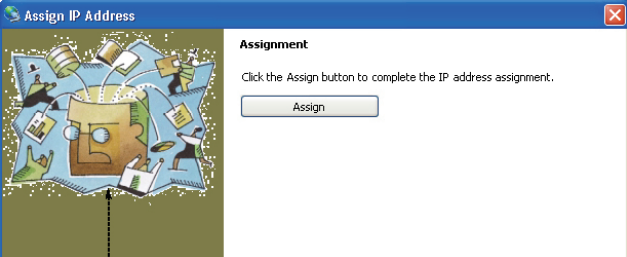
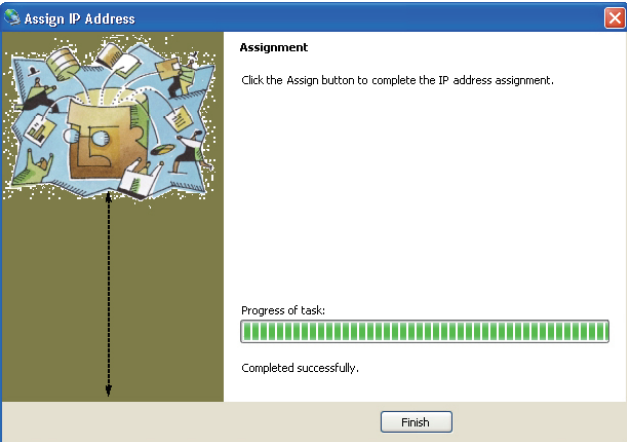
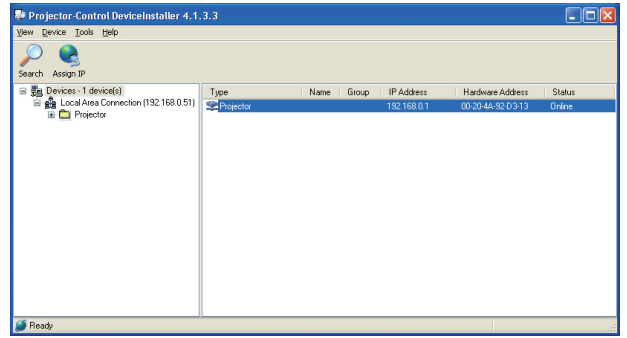
Before setting the IP address, check that the projector has been LAN-networked and turn on the main power of the projector.

<p>1</p>	<p>Start the Projector-Control Device Installer.</p> <ul style="list-style-type: none"> Select [Start] - [All Programs] - [Projector] - [Projector-Control Device Installer] (in the case of Windows® XP). 	 <p>The screenshot shows the 'Projector-Control DeviceInstaller 4.1.3.3' window. The 'Search' button is highlighted. The 'Assign IP' button is also visible. The table below shows the search results:</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Name</th> <th>Group</th> <th>IP Address</th> <th>Hardware Address</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>Projector</td> <td>Projector</td> <td></td> <td>163.254.239.240</td> <td>00:20:44:92:03:13</td> <td>Unreachable</td> </tr> </tbody> </table>	Type	Name	Group	IP Address	Hardware Address	Status	Projector	Projector		163.254.239.240	00:20:44:92:03:13	Unreachable
Type	Name	Group	IP Address	Hardware Address	Status									
Projector	Projector		163.254.239.240	00:20:44:92:03:13	Unreachable									
<p>2</p>	<p>Click the Search button.</p> <ul style="list-style-type: none"> Projector is recognized. <p>(Note) When projector isn't recognized, check the following.</p> <ul style="list-style-type: none"> The firewall function has been disabled. (When it has been enabled, search may not be conducted.) The personal computer and the projector are on the same network. (For preventing unauthorized access.) More than one Projector-Control Device Installer isn't running. 	 <p>The screenshot shows the 'Projector-Control DeviceInstaller 4.1.3.3' window. The 'Projector' is listed in the search results, but its status is 'Unreachable'. A note at the bottom of the window reads: 'The devices marked in red either do not have their IP address assigned or their IP address is on a different subnet.'</p>												
<p>3</p>	<p>Select a projector by clicking the line showing the projector and click the Assign IP button.</p>	 <p>The screenshot shows the 'Projector-Control DeviceInstaller 4.1.3.3' window. The 'Projector' is selected in the search results. A vertical line is drawn over the 'Projector' entry, and the text 'Click here' is placed next to it.</p>												
<p>4</p>	<p>The Assign IP Address screen appears.</p>	 <p>The screenshot shows the 'Assign IP Address' dialog box. The 'Assignment Method' section asks: 'Would you like to specify the IP address or should the unit get its settings from a server out on the network?'. There are two radio buttons: 'Obtain an IP address automatically' (selected) and 'Assign a specific IP address'. At the bottom, there are buttons for '< Back', 'Next >', and 'Cancel'.</p>												

- For automatic IP address setting by the DHCP server, go to page 6. For IP address setting without using the DHCP server, go to page 7.

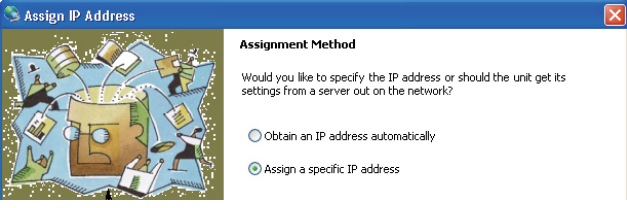
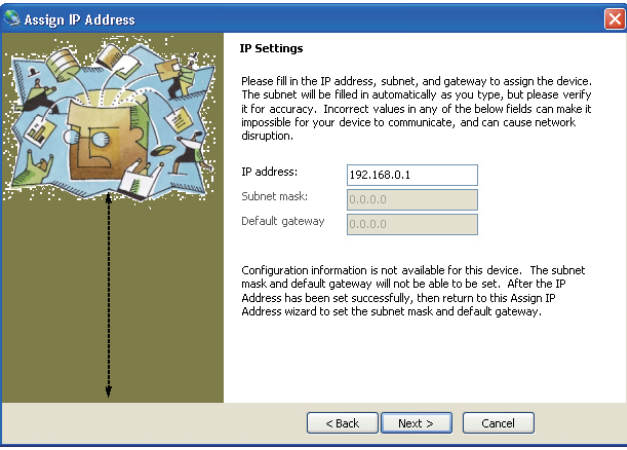
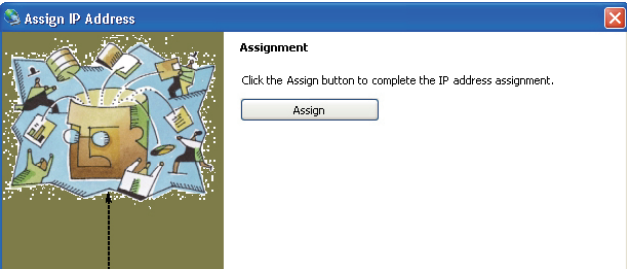
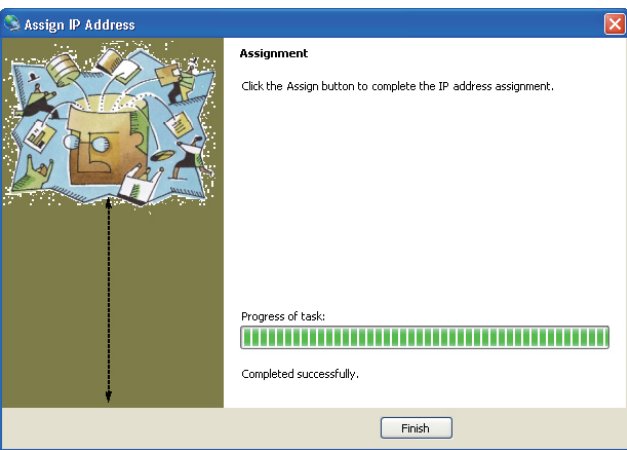
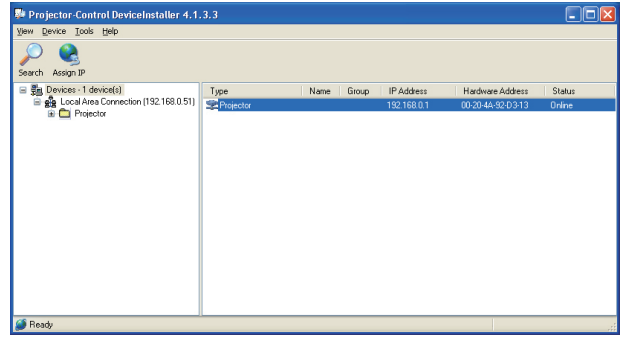
Preparation/SetUp (continued)

When using a DHCP server

<p>5</p>	<p>Select [Obtain an IP address automatically] and click Next.</p>	 <p>Assign IP Address</p> <p>Assignment Method</p> <p>Would you like to specify the IP address or should the unit get its settings from a server out on the network?</p> <p><input checked="" type="radio"/> Obtain an IP address automatically</p> <p><input type="radio"/> Assign a specific IP address</p>												
<p>6</p>	<p>Click Next.</p> <ul style="list-style-type: none"> Check that the options are marked with check-marks as shown on the right. Keep them unchanged for normal use. 	 <p>Assign IP Address</p> <p>IP Discovery Settings</p> <p>What protocols should the device use to discover its IP address from the network?</p> <p><input checked="" type="checkbox"/> DHCP</p> <p><input type="checkbox"/> BOOTP</p> <p><input type="checkbox"/> RARP</p> <p><input checked="" type="checkbox"/> Auto-IP <input checked="" type="checkbox"/> Clear Gateway</p> <p>It is recommended that the "Auto-IP" Check Box be checked if the "DHCP" Check Box is checked.</p> <p>It is also recommended that the "Clear Gateway" Check Box be checked if the "Auto-IP" Check Box is checked.</p> <p>If DHCP fails or is not enabled, the device needs to revert to Auto-IP. If Auto-IP is not set, then DeviceInstaller will not be able to detect the device. Also, if Auto-IP is set and the gateway is set, DeviceInstaller will not be able to detect the device.</p> <p>< Back Next > Cancel</p>												
<p>7</p>	<p>Click Assign.</p>	 <p>Assign IP Address</p> <p>Assignment</p> <p>Click the Assign button to complete the IP address assignment.</p> <p>Assign</p>												
<p>8</p>	<p>Click Finish.</p>	 <p>Assign IP Address</p> <p>Assignment</p> <p>Click the Assign button to complete the IP address assignment.</p> <p>Progress of task:</p> <p>Completed successfully.</p> <p>Finish</p>												
<p>9</p>	<p>Click the Search button.</p> <ul style="list-style-type: none"> Check the IP address. 	 <p>Projector-Control DeviceInstaller 4.1.3.3</p> <p>View Device Tools Help</p> <p>Search Assign IP</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Name</th> <th>Group</th> <th>IP Address</th> <th>Hardware Address</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>Projector</td> <td>Projector</td> <td></td> <td>192.168.0.1</td> <td>00-20-46-32-D313</td> <td>Online</td> </tr> </tbody> </table> <p>Ready</p>	Type	Name	Group	IP Address	Hardware Address	Status	Projector	Projector		192.168.0.1	00-20-46-32-D313	Online
Type	Name	Group	IP Address	Hardware Address	Status									
Projector	Projector		192.168.0.1	00-20-46-32-D313	Online									

Preparation/SetUp (continued)

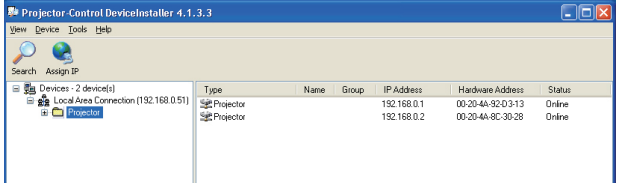
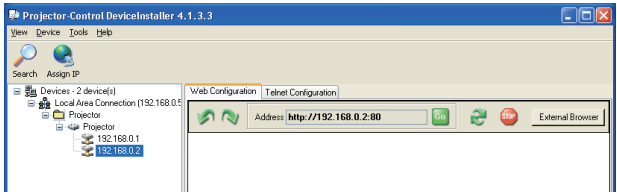
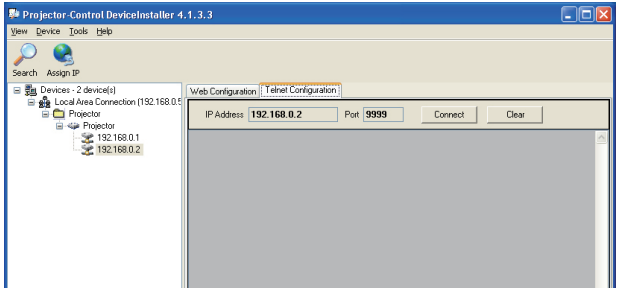
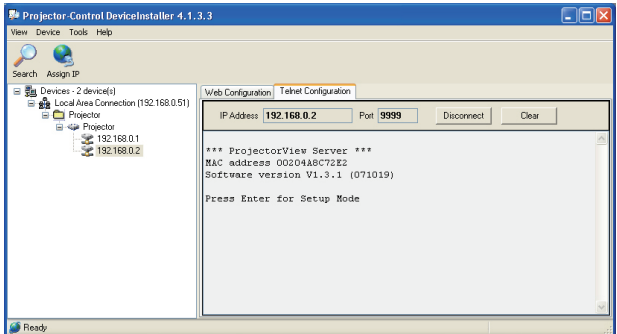
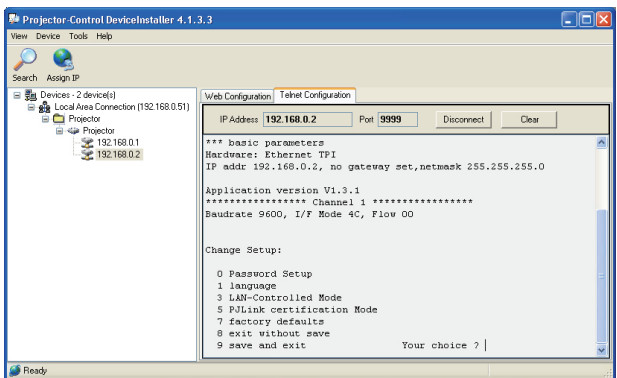
When not using a DHCP server

<p>5</p>	<p>Select [Assign a specific IP address] and click Next.</p>	 <p>Assign IP Address</p> <p>Assignment Method</p> <p>Would you like to specify the IP address or should the unit get its settings from a server out on the network?</p> <p><input type="radio"/> Obtain an IP address automatically</p> <p><input checked="" type="radio"/> Assign a specific IP address</p>																					
<p>6</p>	<p>Enter a fixed IP address (for example, 192.168.0.1) and click Next.</p> <p>(Note) Do not use 0 or 255 for the last digit of the IP address.</p>	 <p>Assign IP Address</p> <p>IP Settings</p> <p>Please fill in the IP address, subnet, and gateway to assign the device. The subnet will be filled in automatically as you type, but please verify it for accuracy. Incorrect values in any of the below fields can make it impossible for your device to communicate, and can cause network disruption.</p> <p>IP address: <input type="text" value="192.168.0.1"/></p> <p>Subnet mask: <input type="text" value="0.0.0.0"/></p> <p>Default gateway: <input type="text" value="0.0.0.0"/></p> <p>Configuration information is not available for this device. The subnet mask and default gateway will not be able to be set. After the IP Address has been set successfully, then return to this Assign IP Address wizard to set the subnet mask and default gateway.</p> <p>< Back Next > Cancel</p>																					
<p>7</p>	<p>Click Assign.</p>	 <p>Assign IP Address</p> <p>Assignment</p> <p>Click the Assign button to complete the IP address assignment.</p> <p>Assign</p>																					
<p>8</p>	<p>Click Finish.</p>	 <p>Assign IP Address</p> <p>Assignment</p> <p>Click the Assign button to complete the IP address assignment.</p> <p>Progress of task:</p> <p>Completed successfully.</p> <p>Finish</p>																					
<p>9</p>	<p>Click the Search button.</p> <ul style="list-style-type: none"> Check the IP address you set. <p>(Note) When using the error/alert e-mail notification function described later, click the Assign IP button and set the subnet mask and default gateway correctly.</p> <ul style="list-style-type: none"> For the values of the subnet mask and default gateway, contact your network administrator. 	 <p>Projector-Control DeviceInstaller 4.1.3.3</p> <p>View Device Tools Help</p> <p>Search Assign IP</p> <table border="1"> <thead> <tr> <th>Devices: 1 device(s)</th> <th>Type</th> <th>Name</th> <th>Group</th> <th>IP Address</th> <th>Hardware Address</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>Local Area Connection (192.168.0.51)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Projector</td> <td>Projector</td> <td></td> <td></td> <td>192.168.0.1</td> <td>00-20-46-32-03-13</td> <td>Online</td> </tr> </tbody> </table> <p>Ready</p>	Devices: 1 device(s)	Type	Name	Group	IP Address	Hardware Address	Status	Local Area Connection (192.168.0.51)							Projector	Projector			192.168.0.1	00-20-46-32-03-13	Online
Devices: 1 device(s)	Type	Name	Group	IP Address	Hardware Address	Status																	
Local Area Connection (192.168.0.51)																							
Projector	Projector			192.168.0.1	00-20-46-32-03-13	Online																	

Telnet setting

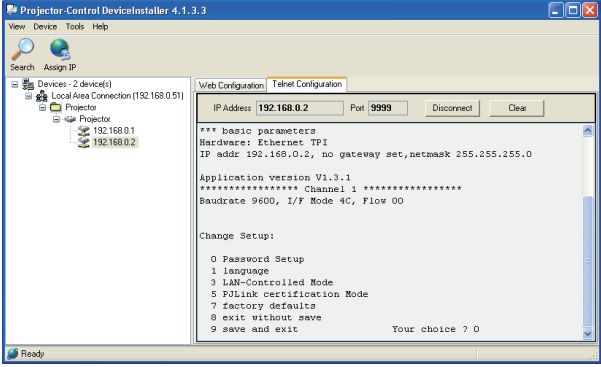
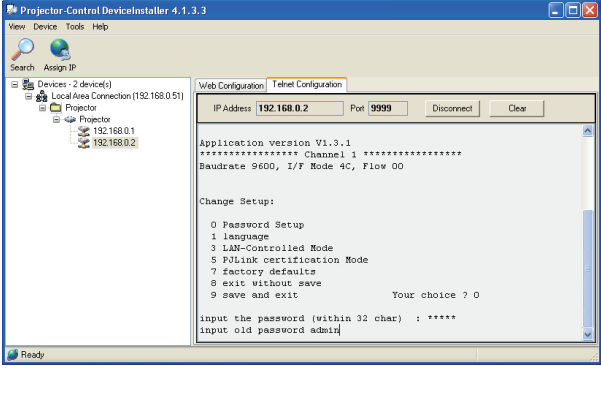
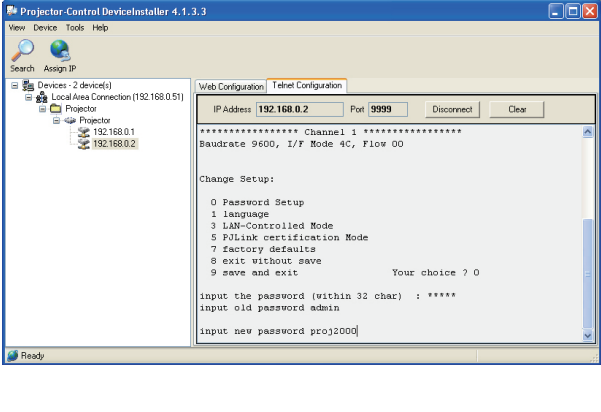
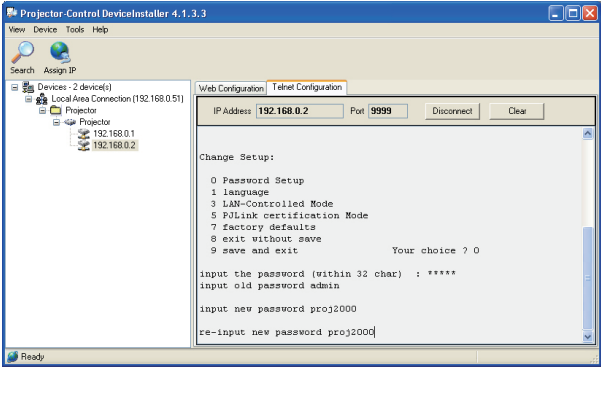
Setting of password, display language, LAN control, and PJLink™ certification using telnet.

This section describes how to set the password, display language on the ProjectorView screen, LAN control, and PJLink™ certification that are necessary for the operation state control tool (commercially available) that uses the projector operation control/monitor tool ProjectorView and the industry standard PJLink™ protocol.

<p>1</p>	<p>Start the Projector-Control Device Installer.</p> <ul style="list-style-type: none"> Select [Start] - [All Programs] - [Projector] - [Projector-Control Device Installer] (in the case of Windows® XP). 	 <p>The screenshot shows the 'Projector-Control Device Installer 4.1.3.3' window. On the left, there is a tree view under 'Local Area Connection (192.168.0.51)' containing two projectors. The main pane displays a table with columns: Type, Name, Group, IP Address, Hardware Address, and Status. Two projectors are listed, both with IP addresses in the 192.168.0.x range and 'Online' status.</p>
<p>2</p>	<p>Press the + buttons on the left pane to expand the tree structure until the IP address you set appears.</p>	 <p>The screenshot shows the same window as step 1, but the 'Telnet Configuration' tab is now active. It displays a text field for the address, currently set to 'http://192.168.0.2:80', and several control buttons including 'External Browser'.</p>
<p>3</p>	<p>Click the Telnet Configuration tab.</p>	 <p>The screenshot shows the 'Telnet Configuration' tab with the 'IP Address' field set to '192.168.0.2' and the 'Port' field set to '9999'. There are 'Connect' and 'Clear' buttons visible.</p>
<p>4</p>	<p>Select the Connect tab. Press the Enter key within 5 seconds after the message shown on the right appears.</p> <ul style="list-style-type: none"> When it passes 5 seconds without any operation on this screen, the screen is shaded and no key operation is accepted. In this case, click the Connect button again to continue setting. 	 <p>The screenshot shows the 'Telnet Configuration' tab with the 'Connect' button highlighted. The main text area displays the following message: <pre>*** ProjectorView Server *** M&C address 00204A8C72E2 Software version V1.3.1 (071019) Press Enter for Setup Mode</pre> </p>
<p>5</p>	<p>The setting menu appears.</p>	 <p>The screenshot shows the 'Telnet Configuration' tab with the 'Connect' button highlighted. The main text area displays the following configuration menu: <pre>*** basic parameters Hardware: Ethernet TPI IP addr 192.168.0.2, no gateway set, netmask 255.255.255.0 Application version V1.3.1 ***** Channel 1 ***** Baudrate 9600, I/F Mode 4C, Flow 00 Change Setup: 0 Password Setup 1 language 3 LAN-Controlled Mode 5 PJLink certification Mode 7 factory defaults 8 exit without save 9 save and exit Your choice ? </pre> </p>

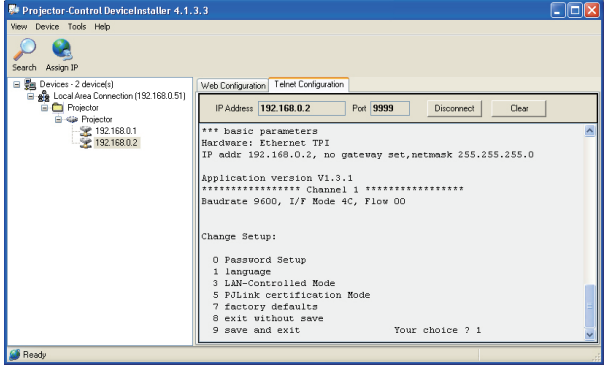
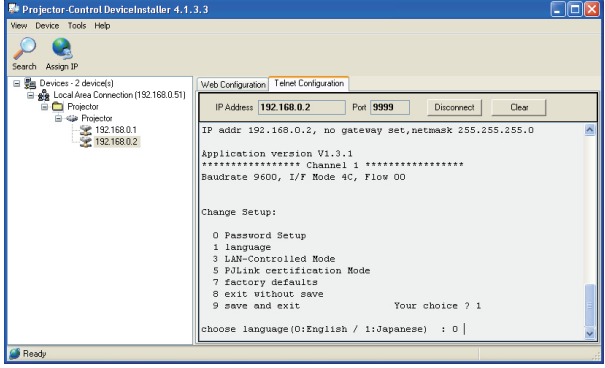
Preparation/SetUp (continued)

Setting the password (Password Setup)

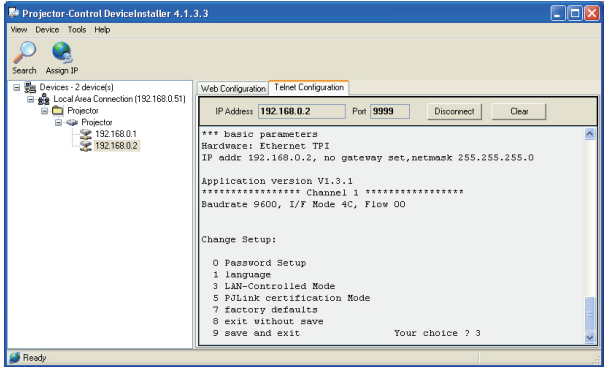
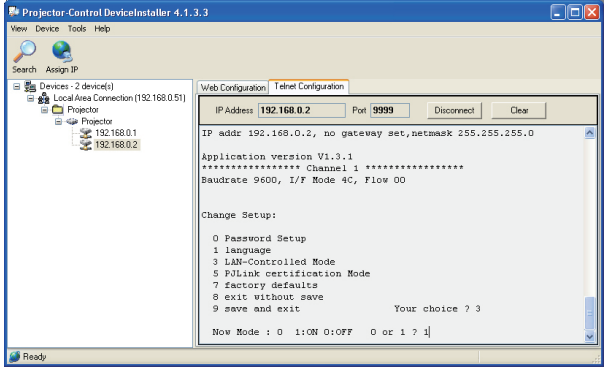
1	Enter "0" and press the Enter key.	
2	Input the old (current) password and press the Enter key. (Default password is admin.) <ul style="list-style-type: none">• If you input a wrong password, an error message appears and the setting menu is displayed again. In this case, set the password again.• If you forget your password, select "7 factory defaults," input the password "projectorcontroller," and then select "9 save and exit" to perform initialization.	
3	Input a new password (example: "proj2000") and press the Enter key. (Note) Use single-byte alphanumeric characters only.	
4	Input the new password (example: "proj2000") again and press the Enter key. <ul style="list-style-type: none">• If you input a wrong password, an error message appears and the setting menu is displayed again. In this case, set the password again.	

Preparation/SetUp (continued)

Setting the display language of ProjectorView (language)

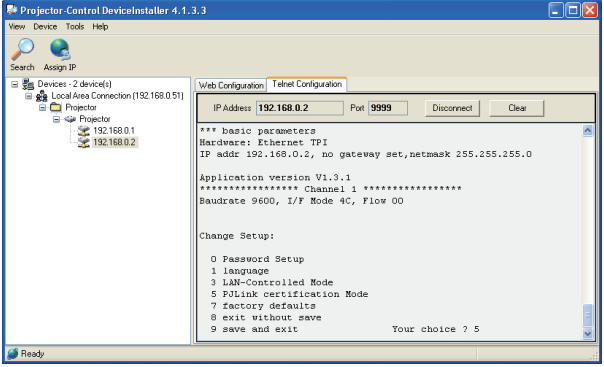
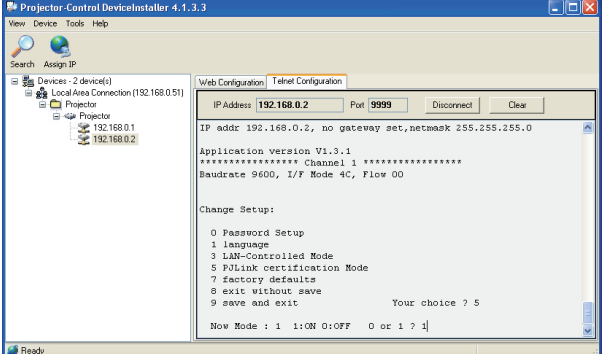
<p>1</p>	<p>Enter “1” and press the Enter key.</p>	
<p>2</p>	<p>Enter “0” for English or “1” for Japanese.</p>	

Setting the LAN control (LAN-Controlled Mode)

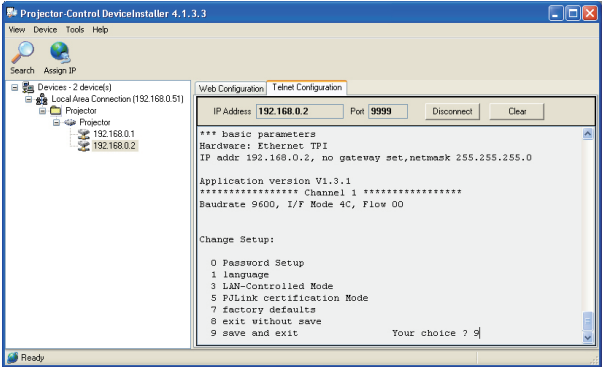
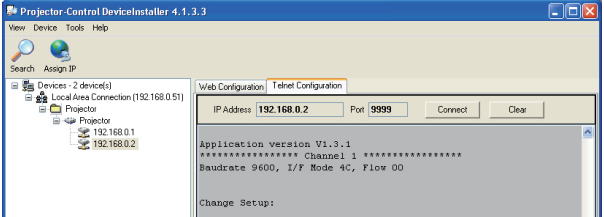
<p>1</p>	<p>Enter “3” and press the Enter key.</p>	
<p>2</p>	<p>To enable the e-mail notification function of ProjectorView, enter 1 and press the Enter key. (Default is OFF (0).) (See pages 12 - 15 for ProjectorView function.)</p>	

Preparation/SetUp (continued)

Setting the PJLink™ certification (PJLink certification Mode)

<p>1</p>	<p>Enter “5” and press the Enter key.</p> <ul style="list-style-type: none"> When you don’t use PJLink™ protocol communication, skip this item. (See page 16 for PJLink™.) 	
<p>2</p>	<p>To enable the PJLink™ certification, enter “1” and press the Enter key. To disable it, enter “0” and press the Enter key. (Default is ON (1).)</p>	

Save and exit

<p>1</p>	<p>Enter “9” and press the Enter key.</p>	
<p>2</p>	<p>The setting screen is shaded and the setting is updated.</p> <ul style="list-style-type: none"> It takes about 10 seconds for the setting to be updated. Don’t perform communication during this period. 	

- Because the password, display language, LAN control, and PJLink™ certification are set using the telnet function, you can also set them on the command prompt window of the personal computer. Enter the following command and press the Enter key.
 - > telnet [IP address you set] 9999 [“>” shows a prompt.]

When setting menu appears, perform the setting procedure as described above.

(Note)

Check that the port number “9999” isn’t blocked by the firewall.

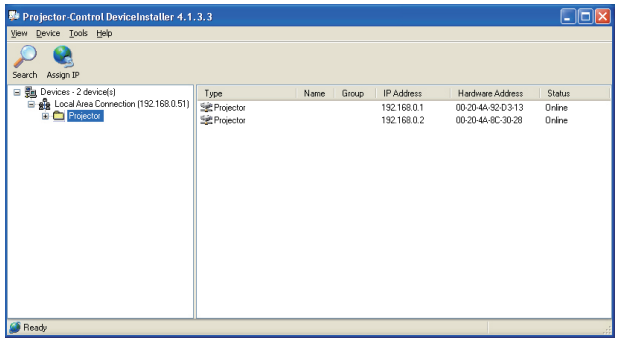
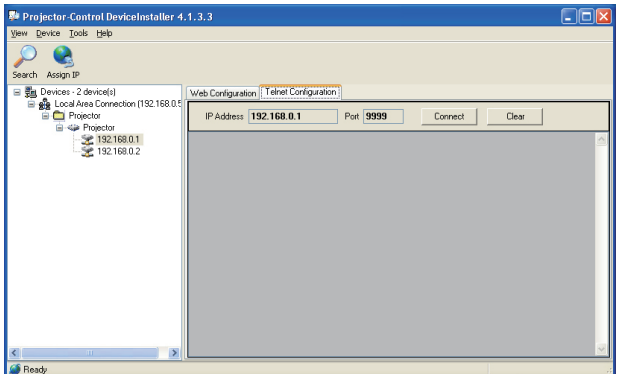
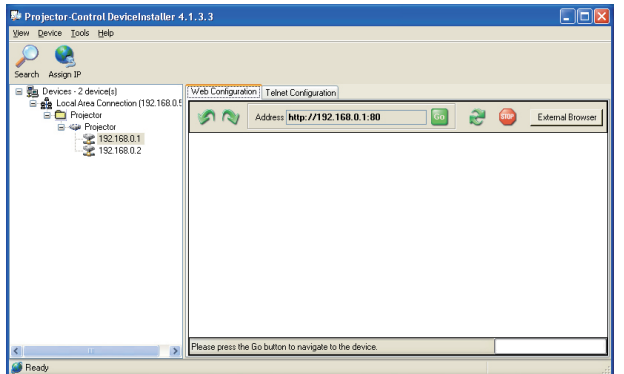
ProjectorView

Using the ProjectorView

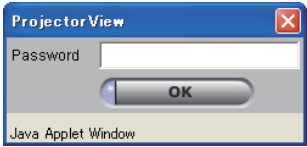
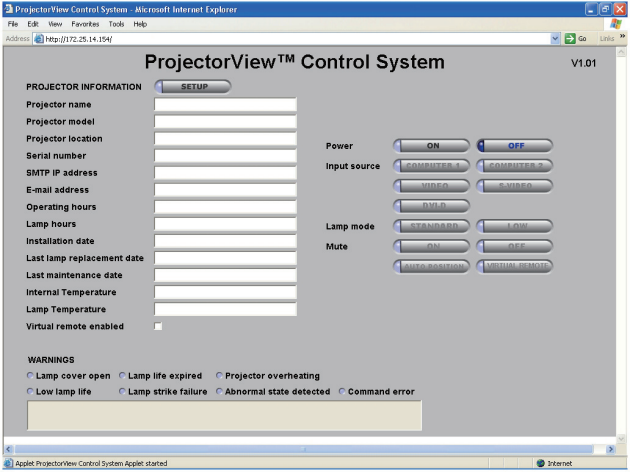
This section describes ProjectorView, a tool to control and monitor the projector's operations by a Web browser. The major functions of ProjectorView are:

- Power on/off
- Input source switching
- State information indication (projector's name, temperature, lamp operation time, error/alert, etc.)
- E-mail notification in case of error/alert

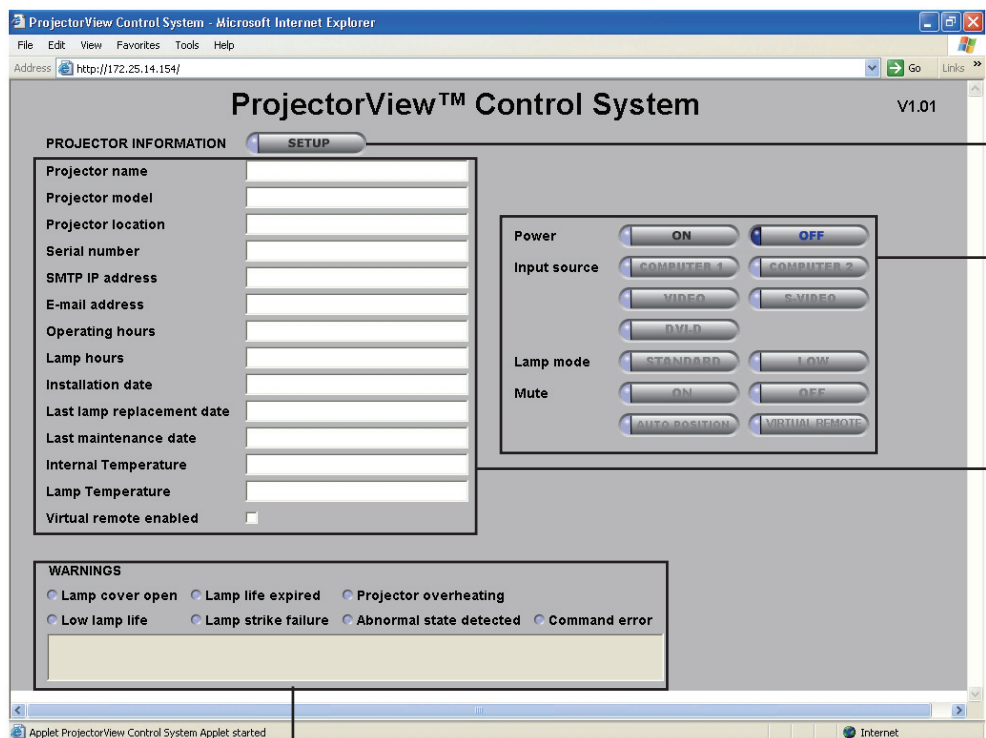
How to start up

<p>1</p>	<p>Start the Projector-Control Device Installer.</p> <ul style="list-style-type: none"> • Select [Start] - [All Programs] - [Projector] - [Projector-Control Device Installer] (in the case of Windows® XP). 	 <p>The screenshot shows the 'Projector-Control Device Installer 4.1.3.3' window. On the left, a tree view shows 'Local Area Connection (192.168.0.51)' expanded to 'Projector'. On the right, a table lists two projectors:</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Name</th> <th>Group</th> <th>IP Address</th> <th>Hardware Address</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>Projector</td> <td></td> <td></td> <td>192.168.0.1</td> <td>00-20-4A-92-03-13</td> <td>Online</td> </tr> <tr> <td>Projector</td> <td></td> <td></td> <td>192.168.0.2</td> <td>00-20-4A-8C-30-28</td> <td>Online</td> </tr> </tbody> </table>	Type	Name	Group	IP Address	Hardware Address	Status	Projector			192.168.0.1	00-20-4A-92-03-13	Online	Projector			192.168.0.2	00-20-4A-8C-30-28	Online
Type	Name	Group	IP Address	Hardware Address	Status															
Projector			192.168.0.1	00-20-4A-92-03-13	Online															
Projector			192.168.0.2	00-20-4A-8C-30-28	Online															
<p>2</p>	<p>Expand the tree structure on the left pane until the IP address you set appears.</p>	 <p>The screenshot shows the 'Projector-Control Device Installer 4.1.3.3' window with the 'Web Configuration' tab selected. The left pane shows the tree structure expanded to '192.168.0.1' and '192.168.0.2'. The right pane shows a configuration form with 'IP Address' set to '192.168.0.1' and 'Port' set to '9999'. There are 'Connect' and 'Clear' buttons.</p>																		
<p>3</p>	<p>Select the WEB Configuration tab.</p>	 <p>The screenshot shows the 'Projector-Control Device Installer 4.1.3.3' window with the 'Web Configuration' tab selected. The 'Address' field is set to 'http://192.168.0.1:80'. There are 'Go' and 'External Browser' buttons. A message at the bottom says 'Please press the Go button to navigate to the device.'</p>																		
<p>4</p>	<p>Click the External Browser button or Go button.</p> <p>External Browser button : The browser starts on a separate window. Go button : The browser starts on the Projector-Control Device Installer window.</p> <p>(Note)</p> <ul style="list-style-type: none"> • You can start ProjectorView by directly entering the URL of the Web browser “http://IP address you set” instead of by clicking the External Browser button. • When you are using a proxy server, don't enable the proxy when accessing this IP address. • You can open only 1 browser screen from the device installer. • It is possible to control a projector using 2 computers running “ProjectorView”. However, use only 1 computer for Telnet setting. 																			

ProjectorView (continued)

<p>5</p>	<p>The password input screen appears. Enter the password you set.</p> <ul style="list-style-type: none"> The default password is admin. <p>(Note) If you input a wrong password three successive times, the Web browser is closed. In this case, repeat from step 1.</p>	
<p>6</p>	<p>The ProjectorView main screen appears.</p> <ul style="list-style-type: none"> Some buttons may not be displayed. In this case, select [Start] - [Control Panel] - [Java Plug-in] and disable the cache. 	

[ProjectorView main screen]



Press to display the Setup window. (See page 15.)

Press to control the projector. For the functions of these buttons, see the user guide of the projector.

Projector information is displayed. To display the projector information, set LAN-Controlled Mode to ON (1) (see page 10) and enter necessary information on the Projector Setup screen (see page 15) in advance.

Failures in the projector are indicated with dots. When you place the mouse cursor to a dot, the indicated failure is described in the box at the bottom.

(Note)

When mute is on, you cannot change the lamp mode. If you try to change the lamp mode, a dot appears next to “Command error” of WARNINGS.

ProjectorView (continued)

VIRTUAL REMOTE controller

Put a checkmark in the box of the Virtual remote enabled on the ProjectorView main screen, and click the VIRTUAL REMOTE button. The following Virtual Remote window appears.



For the functional descriptions of each button, see the user manual of the projector.

E-mail notification function

In case of an error or abnormality in the projector, e-mail notification is automatically sent to the designated address to notify of the error or abnormality.

To use this function, perform the following steps.

- 1 Enable the LAN control function. (See page 10.)
- 2 Set the SMTP IP address, E-mail address, E-mail host, and E-mail from.

Once the above-mentioned items are set, the e-mail notification function remains enabled even when the browser (ProjectorView screen) is closed.

Example of notification: Alert on lamp life end

ProjectorView Alert:

The lamp has reached its maximum usage. Replace the lamp and reset lamp counter. See user guide for complete instructions.

Projector name : abc
Projector model : FL7000U
Projector location : 10Factory-5F
Serial number : 12345
Operating hours : 2146 hours and 43 minutes
Lamp hours : 4000 hours and 0 minute
Installation date: 2007/01/01
Last lamp replacement date: 2007/01/01
Last maintenance date: 2007/01/01

(Note)

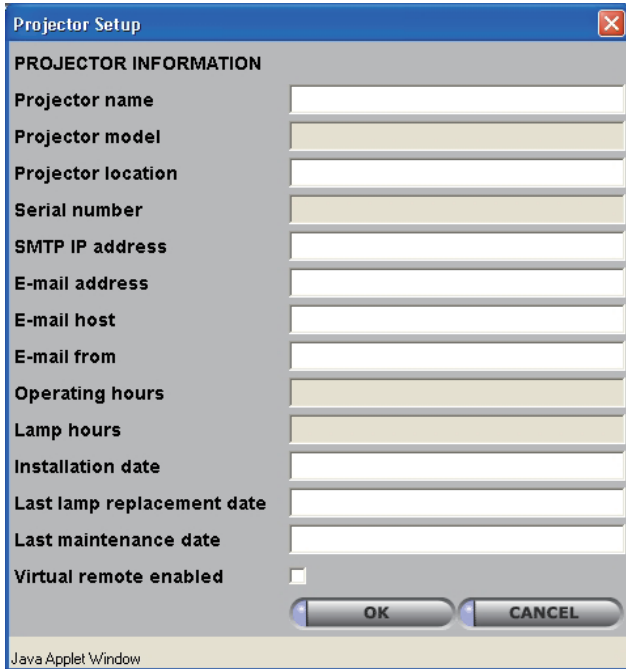
- In case of a command error, e-mail notification isn't sent.
- When the LAN control is enabled, serial RS-232C commands may not be transmitted.
- You can't control the LAN/serial RS-232C commands for about 10 seconds after turning on the main power of the projector.
- When commands for LAN control and for RS-232C control are issued at the same time, the LAN control command overrides the RS-232C control command.
- While a test pattern is displayed or a password is entered, you can't change the lamp mode and enable and disable the MUTE function.
- Response may be delayed depending on the operating state of the projector.
- The DHCP mode may not operate with certain devices (routers etc.).
- When you turn on the projector by pressing the ON/OFF button on the ProjectorView main screen, other commands are not accepted for about 1 minute.
- E-mail notification is issued twice: at the time of occurrence of an alert/error and 2 hours after the occurrence.

To use the e-mail notification function, configure the initial settings in advance as described on the next page.

ProjectorView (continued)

Initial setting

To load information on the projector such as model name and lamp operating time, set the projector data in advance. Click the SETUP button on the ProjectorView main screen. The Projector Setup screen appears. Enter data according to the description of each setting item.



(Note)

- You can't change the Projector model, Serial number, Operating hours, and Lamp hours. They are loaded from the projector and displayed when the LAN controlled mode of Telnet setting is set to ON.
- The entry field of each setting item contains a blank character by default. When setting these items, delete the blank characters.

Each setting item is described as follows:

Projector name*	Name to identify the projector
Projector model	Model name of the projector
Projector location*	Location of the projector
Serial number	Serial number of the projector
SMTP IP address*	IP address of the SMTP server used for e-mail transmission (Example: 192.168.0.1)
E-mail address*	e-mail address to receive alert notification e-mail (Example: administrator@XXX.XXX.XXX) (up to 64 characters)
E-mail host*	User-defined string displayed at the Internet header of e-mail message (Example: user)
E-mail from*	Sender of alert notification e-mail (Example: PJView@XXX.XXX.XXX)
Operating hours	Cumulative projector operating time
Lamp hours	Cumulative lamp operating time calculated based on that LAMP MODE is LOW.
Installation date*	Date when the projector was installed
Last lamp replacement date*	Date when the lamp was last replaced
Last maintenance date*	Date when the projector was last maintained
Virtual remote enabled	Display or hide the virtual remote controller (Check the box to display.)

*) For data entry, use single-byte alphanumeric characters and symbols (+ - / = @ * _ ! ? . , ; : # \$ % & () | < > [] { } " ').

(Note)

When the "Standard" lamp mode is selected, the indicated lamp operating time may exceed the indicated operating time.

Support for the PJLink™ function

This projector supports standard protocol PJLink™ for projector control and you can control and monitor projector's operations using the same application among projectors of different models and different manufacturers.

To use this function, set the PJLink™ certification properly according to the setting of the PJLink™ application to be used. (See page 11.)

Supported commands

The table below shows commands to control the projector using the PJLink™ protocol.

Command	Description	Remark (Parameter)
POWER	Power control	0 = Standby 1 = Power on
POWR?	Inquiry about the power state	0 = Standby 1 = Power on 2 = Cooling down 3 = Warming up
INPT	Input switching	11 = RGB1
INPT?	Inquiry about input switching	12 = RGB2 21 = VIDEO 22 = S-VIDEO 31 = DVI-D
AVMT	Mute control	30 = Video and audio mute disable
AVMT?	Inquiry about the mute state	31 = Video and audio mute enable
ERST?	Inquiry about the error state	1st byte: Fan error, 0 or 2 2nd byte: Lamp error, 0 to 2 3rd byte: Temperature error, 0 or 2 4th byte: Cover open error, 0 or 2 5th byte: Always 0 6th byte: Other error, 0 or 2 0 to 2 mean as follows: 0 = No error detected, 1 = Warning, 2 = Error
LAMP?	Inquiry about the lamp state	1st value (1 to 5 digits): Cumulative lamp operating time 2nd value: 0 = Lamp off, 1 = Lamp on
INST?	Inquiry about the available inputs	The following value is returned. "11 12 21 22 31"
NAME?	Inquiry about the projector name	The projector name set on the ProjectorView Setup window is returned.
INF1?	Inquiry about the manufacturer name	"MITSUBISHI" is returned.
INF2?	Inquiry about the model name	"FL7000U" is returned.
INF0?	Inquiry about other information	No other information is available. No parameter is returned.
CLSS?	Inquiry about the class information	"1" is returned.

- This projector is fully compliant to the specifications of JBMIA PJLink™ Class 1. It supports all the commands defined by PJLink™ Class 1, and the compliance has been verified with the PJLink™ standard specifications Version 1.0.

(Note)

- The above-mentioned control may not be performed correctly or the monitoring data may not be obtained correctly in the following conditions:
 - During standby
 - During input source switching
 - During command processing
 - During zoom/focus adjustment
 - During auto position execution
 - Before the splash screen disappears after the power is turned on.
 - During lens shift adjustment
 - During AV mute
- During zoom/focus adjustment, lens shift adjustment, AV mute, etc., it may take approx. 5 seconds to receive a response to a command.
- Use 1 controller to control/monitor 1 projector.
- For how to control/monitor using PJLink™, see the operation manual of the PJLink™ application you use.
- When you monitor the projector's operating state using this function by issuing inquiry commands successively, issue an inquiry command after receiving the response to the previous inquiry command from the projector.
- For the specifications of PJLink™, access to the Web site of Japan Business Machine and Information System Industries Association (JBMIA). (<http://pjlink.jbmia.or.jp/english>)

Support for the PJLink™ function (continued)

[Notes on Instant Shut Down]

Instant shutdown of the projector during control using the network function may cause ProjectorView to fail to display data correctly.

- The operating time and temperature may not be displayed correctly. In this case, close the browser, recognize this projector using Projector-Control Device Installer, and then start the browser again. (Refer to “How to start up” of ProjectorView.)
- When you use the e-mail notification function only, no special action is required.

[Terms and definitions]

For detailed descriptions, see commercial books.

Term	Definition
DHCP	Abbreviation for Dynamic Host Configuration Protocol. This protocol automatically assigns IP addresses to networked devices.
Gateway	A server (or router) to communicate across networks (subnets) that are divided by subnet mask.
IP address	Numerical address to identify networked computers.
MAC address	Abbreviation for Media Access Control address. MAC address is a unique ID number assigned to each network adapter, based on which data are sent and received between network adapters.
Subnet mask	A value to define the number of bits used for a network address of a divided network (or subnet) in an IP address.
Telnet	A virtual terminal protocol to log in to and control a remote computer.
URL	Abbreviation for Uniform Resource Locator. URL is a unique Internet address of each Web page.